

## PROGRESS REPORT

TECHNICAL SERVICES DEPT. - W. G. KRUMMICH PLANT

JOB NO.

91341:9002

REPORT NO.

3

164164

DATE

1, 27,

| W.G. KRUMMICH PLANT                                 |  | GENERAL OFFICE                                     | OTHERS   |
|---|--|--|--|
| <input checked="" type="checkbox"/> G.L. Bratsch    | <input checked="" type="checkbox"/> W.C. Engman    | <input checked="" type="checkbox"/> M.P. Lux       | <u>Anniston</u>                                    |
| * <input checked="" type="checkbox"/> D.W. Jackson  | <input checked="" type="checkbox"/> S.H. Jackson   | <input checked="" type="checkbox"/> D. Danna (4)   | <input checked="" type="checkbox"/> J.C. Landwe    |
| <input checked="" type="checkbox"/> F.E. Heisler    | <input checked="" type="checkbox"/> D.C. Armstrong | <input checked="" type="checkbox"/> D.B. Hosmer/   | <u>Nitro</u>                                       |
| * <input checked="" type="checkbox"/> B.W. Corlew   | <input checked="" type="checkbox"/> H.B. Patrick   | <input checked="" type="checkbox"/> F.J. Holzapfel | <input checked="" type="checkbox"/> W.R. Kellog    |
| * <input checked="" type="checkbox"/> E.R. Billen   | <input checked="" type="checkbox"/> G.C. Vincent   | <input checked="" type="checkbox"/> R.E. Howard    | <u>S. 2nd St.</u>                                  |
| * <input checked="" type="checkbox"/> J.C. Hume     | <input checked="" type="checkbox"/> J.Jennings     | <input checked="" type="checkbox"/> P.B. Hodges    | <input checked="" type="checkbox"/> P.O. DeGarm    |
| <input checked="" type="checkbox"/> A.E. Leisy      |  | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/> T.M. Patric    |
| * <input checked="" type="checkbox"/> T.W. Dalton   |  | <input checked="" type="checkbox"/>                | * <input checked="" type="checkbox"/> J.F. Quinn   |
| * <input checked="" type="checkbox"/> B.R. Williams |  | <input checked="" type="checkbox"/>                | * <input checked="" type="checkbox"/> R.L. Wiese   |
| * <input checked="" type="checkbox"/> C.N. Deubner  |  | <input checked="" type="checkbox"/>                | * <input checked="" type="checkbox"/> M.E. Batz-CE |

\* TO RECEIVE DETAIL SECTION

TITLE:

W.G.K. Waste Disposal - 1970

W.G.K. Waste Disposal 1970

PERSONNEL:

M. Foresman (C. F. Buckley)

PROBLEM:

Determine the volume of all W.G.K. chemical waste disposed of at the sanitary landfill during 1970, and the cost for the disposal of this waste and trash during 1970.

SUMMARY

During 1970, the following quantities of chemical waste were disposed of at the Village and sanitary landfill. The total cost for the disposal of this waste and trash was \$135,670 (\$95,814 hauling and \$39,856 landfill operation).

|                          | <u>#/year</u>     |
|--------------------------|-------------------|
| 1) In drums              | 540,153           |
| 2) In dumpster boxes     | 10,073,470        |
| 3) In trailers and tanks | <u>24,349,310</u> |
|                          | 34,962,933        |

Mike Foresman

M. Foresman

pd

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DETAILS

A. Table 1 details the composition and volume of chemical waste generated at W.G.K. and disposed of at the Village and sanitary landfill.

TABLE 1VOLUME OF CHEMICAL WASTE

| DEPT.                    | MATERIAL  | TRAILERS/TANKS | DEMPSTER BOXES                    | DRUMS            |
|--------------------------|---|----------------|-----------------------------------|------------------|
| 275                      | Spent maleic anhydride<br>Filter aid  | 1,500,000      | 875,000                           |                  |
| 239                      | Still residue (25-40%<br>Santophen #1)  | 110,000        |                                   |                  |
| 222                      | ONA residue<br>Contaminated PNCB  |                |                                   | 13,200<br>13,200 |
| 250                      | 40% P, 60% H <sub>2</sub> O   |                |                                   | 25,000           |
| 245                      | P <sub>2</sub> S <sub>5</sub>   |                |                                   | 5,000            |
| 248                      | Mg-Phosphorus complex,<br>high boilers  | 900,000        |                                   |                  |
| 233                      | FeCl <sub>3</sub> , S, Cl-Benzene   |                | 120,000                           |                  |
| 208<br>209<br>220<br>221 | Meta fraction-35% meta<br>Nitrochlorobenzene, 45%<br>Para, 20% ortha  | 2,000,000      |                                   |                  |
| 254                      | Recovered phenol  |                |                                   | 20,000           |
| 255                      | NDPA residue  | 2,400,000      | WGK 1531339                       |                  |
| 213-217                  | Residue   | 3,000          |                                   |                  |
| 266                      | Filter aid, Santolubes,<br>Process oil, zinc oxide<br>P <sub>2</sub> S <sub>5</sub> , H <sub>2</sub> O                |                | 926,470                           | 9,900            |
| 270                      | Filter aid<br>Ca solids<br>#5 oil, S-290C, S-291<br>Methanol, oil<br>P <sub>2</sub> S <sub>5</sub> , H <sub>2</sub> O | 709,850        | 1,900,000<br>950,000<br>1,900,000 | 1,200            |

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TABLE 1 - VOLUME OF CHEMICAL WASTE (continued)

| DEPT.        | MATERIAL   | TRAILERS/TANKS                      | DEMPSTER BOXES                    | DRUMS   |
|--------------|--|-------------------------------------|-----------------------------------|---------|
| 256          | H <sub>2</sub> O, ØOH, PSA<br>Filter aid<br>BaO, BaCo <sub>3</sub> , CaCo <sub>3</sub><br>#5 oil, BABS, ABSA | 756,092                             | 1,000,000<br>500,000<br>1,000,000 |         |
| 236<br>237   | Spent acid<br>Spent caustic<br>50% DCP-50° Penta<br>12° Cl-phenol  | 1,350,000<br>3,150,000<br>2,250,000 |                                   | 40,000  |
| 251          | AC1  |                                     |                                   | 5,000   |
| 283          | Contaminated #5 oil  |                                     |                                   | 21,600  |
| 232          | 10-30% Gypsum  |                                     | 792,000 dry wt.                   |         |
| Rip<br>Track | H <sub>2</sub> O, ØOH, Aroclor   | 930,750                             |                                   |         |
| 273          | ODCB, TCB, ONCB  | 262,700                             |                                   |         |
| 246          | Mentar   |                                     |                                   | 180,000 |
| 247          | Para-phenetidine residue   | 141,030                             |                                   | 206,250 |
| 224          | M-DCB, TCB   |                                     | 110,000                           |         |
| 223          | 18% Santosite<br>50% H <sub>2</sub> O, 50% ØOH Residue<br>Fusion mass & washings                             | 1,333,328<br>5,720,000<br>832,560   |                                   |         |
|              |  | 24,349,310                          | 10,073,470                        | 540,150 |

B. The cost for hauling and disposal of the chemical waste and trash from W.G.K. during 1970 is given in Table 2.

TABLE 2

WGK 1531340

\$/Year

|                                 |        |
|---------------------------------|--------|
| Hauling -                       |        |
| Trailers                        | 47,014 |
| Dempster tanks, boxes and drums | 48,800 |
| Landfill -                      |        |
| Liquid and drums                | 29,856 |
| Dempster boxes and trash        | 10,000 |

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\$135,670